DOCUMENT RESUME

ED 324 082 JC 900 537

AUTHOR Grosset, Jane
TITLE CCP Transfer Outcomes at West Chester University. Institutional Research Report #49.
INSTITUTION Philadelphia Community Coll., PA. Office of Institutional Research.
PUB DATE May 90
NOTE 37p.
PUB TYPE Reports - Research/Technical (143)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS Academic Achievement; *Academic Persistence; College Credits; College Graduates; *College Transfer Students; Community Colleges; Comparative Analysis; Followup Studies; Higher Education; Outcomes of Education; Student Attrition; Student Characteristics; Two Year Colleges; *Two Year College Students; Universities; Withdrawal (Education)

ABSTRACT

Based on admissions, academic performance and persistence outcomes data provided by West Chester University, this report analyzes the performance and success rates of former Community College of Philadelphia (CCP) students who applied to or attended the university between 1986 and 1990. The first section contains information on application, admission, and matriculation patterns of 189 CCP students who applied to West Chester between fall 1986 and fall 1989. The next section contains data on West Chester academic and persistence levels for spring 1989 and fall 1989 transfers. The third section focuses on 34 new CCP transfer students who enrolled in the fall 1986 and fall 1987, comparing results with student outcomes from other feeder school categories. An appended supplement contains outcomes data for transfers who were enrolled in spring 1990. Study findings included the following: (1) CCP transfer student acceptance rates were 70% between 1986 and 1989; (2) 47.4% of the transfer students who matriculated between 1986 and 1989 earned grade point averages (GPA's) below 2.0 at West Chester; (3) among the transfer students enrolled at West Chester in the spring and fall 1989, the greatest proportion were enrolled in Liberal Studies; (4) fall 1986 and fall 1988 transfer student graduation rates were comparable to the graduation rates of transfers from other two-year institutions but lower than graduation rates from other feeder categories; and (5) the median GPA for the 87 CCP transfer students enrolled in spring 1990 was 2.53. (GFW)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED324082

CCP Transfer Outcomes at West Chester University

JC900537

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

J. Grosset

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

X This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

Jane Grosset
Institutional Research
Report #49

May, 1990

Community College of Philadelphia

Introduction

West Chester University provided CCP with admissions, academic performance and persistence outcome information based on CCP transfer students* to their University. Three separate databases were furnished and the three sections of this report summarize these three data sources.

The first section of this report contains information concerning application, admission and matriculation patterns associated with CCP applicants to West Chester between Fall 1986 and Fall 1989. West Chester academic performance and persistence information are presented for the applicants who eventually matriculated. The relationships between these West Chester outcomes and academic performance and persistence at CCP are also explored in this section of the report.

The second section of this report contains information related to West Chester academic and persistence data for all former CCP students who were enrolled at West Chester during the Spring 1989 or Fall 1989 semesters. In this section West

---

* In keeping with the definition of transfer student advocated by the Center for the Study of Community Colleges and used in prior CCP institutional research, students with fewer than 12 credits at time of departure from CCP were excluded from the following analyses.

Chester transfer outcomes are compared across student subgroups defined by West Chester program enrollment categories.

The last set of information focuses on CCP transfer students who entered West Chester University in the Fall 1986 or Fall 1987 semesters. West Chester academic achievement and persistence information is available for CCP transfers during this time period and for all West Chester transfers broken out by type of feeder school as well. Comparisons of West Chester outcomes are made between CCP transfer students and transfers from the other feeder school categories.

West Chester Application, Admission and Matriculation Pattern
Fall 1986 through Fall 1989

Over the four fall semesters between 1986 and 1989, 189 former students who earned at least 12 CCP credits applied to West Chester University for admission. The breakdown of applicants by semester which appears in Figure 1 indicates there has been increasing interest among CCP students in transfer to West Chester in recent fall semesters. The greatest number (56) of former CCP applicants was for the Fall 1988 semester dipping sightly to 52 for the Fall 1989 term.

Following the application process at West Chester, three outcomes are possible, 1) the student is accepted, 2) the student is rejected or 3) the application process is determined to be incomplete. Of the 189 former CCP applicants, 70% were accepted for admission to West Chester, 20% were rejected and 10% failed to complete the necessary application procedures (Figure 2).

The bar graph in Figure 3 contains these application outcomes for each of the four fall semesters represented by the data. Acceptance rates were highest in the two most recent semesters, 78% in Fall 1988 and 74% in Fall 1989. These rates were considerably higher than the 60% acceptance rate in Fall 1986.

Figure 1

FORMER CCP STUDENTS
WEST CHESTER UNIVERSITY APPLICANTS
FALL 1986 THRU FALL 1989

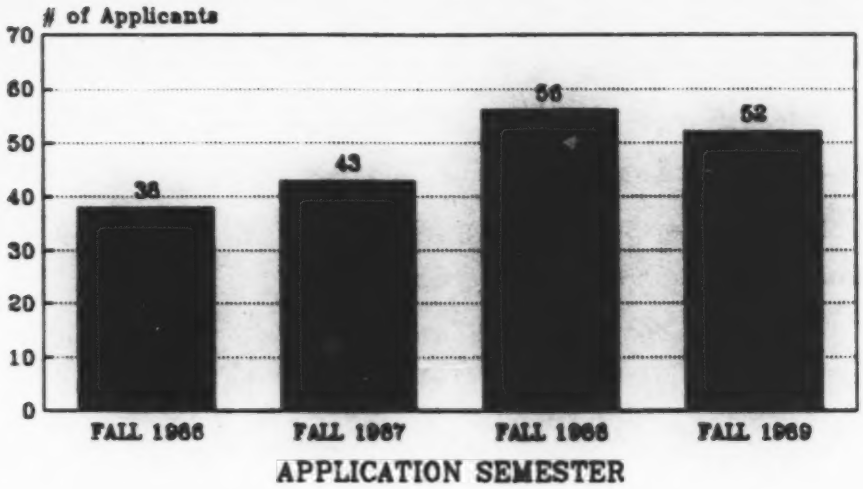
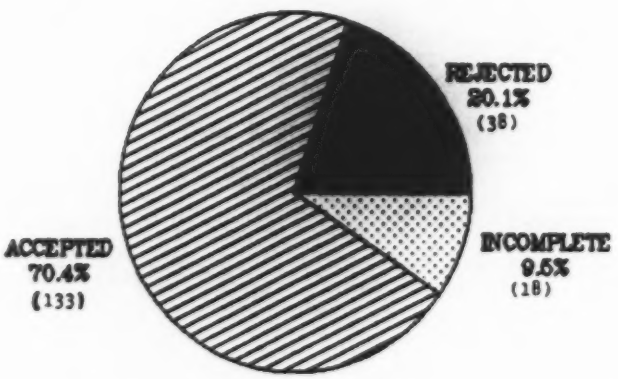


Figure 2

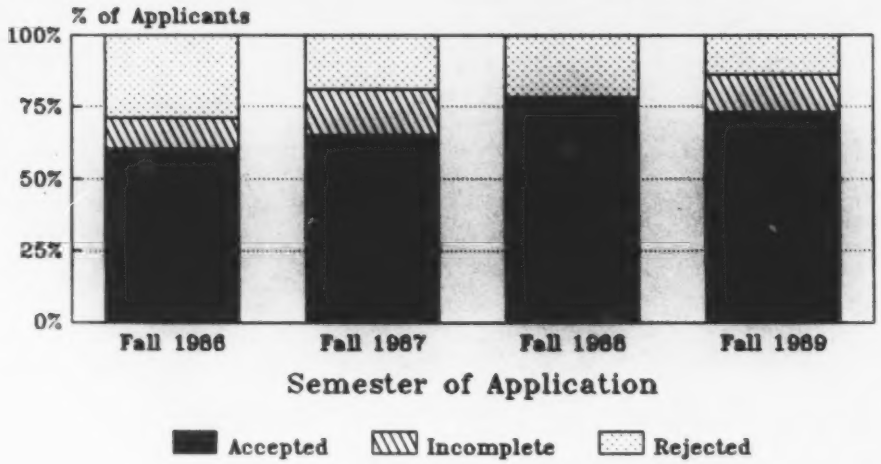
WEST CHESTER
ADMISSION DECISIONS



3a

Figure 3

WEST CHESTER
ADMISSION DECISIONS
BY APPLICATION SEMESTER



CCP GPA and earned credits were also available from this West Chester application data base. The distribution of CCP earned credits associated with the 189 former CCP students who applied to West Chester for admission is contained in Figure 4. In this study CCP transfer students were defined as having completed a minimum of 12 CCP credits, therefore, the lowest credit hour category in the pie chart in Figure 4 is 12 to 24 credits. The largest percentage of CCP applicants to West Chester persisted at CCP for fewer credit hours. A little more than one-third of the applicants fell into the lowest CCP credit hour category (12 to 24 credits) followed in magnitude by students in the 25 to 40 credit hour category (28%). Only 18% of West Chester applicants in the studied time period were CCP graduates or near graduates (56+credits).

Few of the West Chester applicants were academically marginal CCP students. Fewer than 8% had earned CCP GPA's below 2.0 (Figure 5). The largest percentage of CCP transfers (68.4%) had earned GPA's between 2.0 and 2.99, while slightly less than one-quarter (23.2%) maintained a cumulative CCP GPA between 3.0 and 4.0.

Figures 6 and 7 breakout CCP credit hour and GPA categories by admission outcome information. In general, students who were more persistent at CCP were more likely to be accepted (Figure 6). Although former CCP students who earned between 41 and 55 CCP credits prior to application

Figure 4

CCP CREDITS EARNED BY
WEST CHESTER APPLICANTS

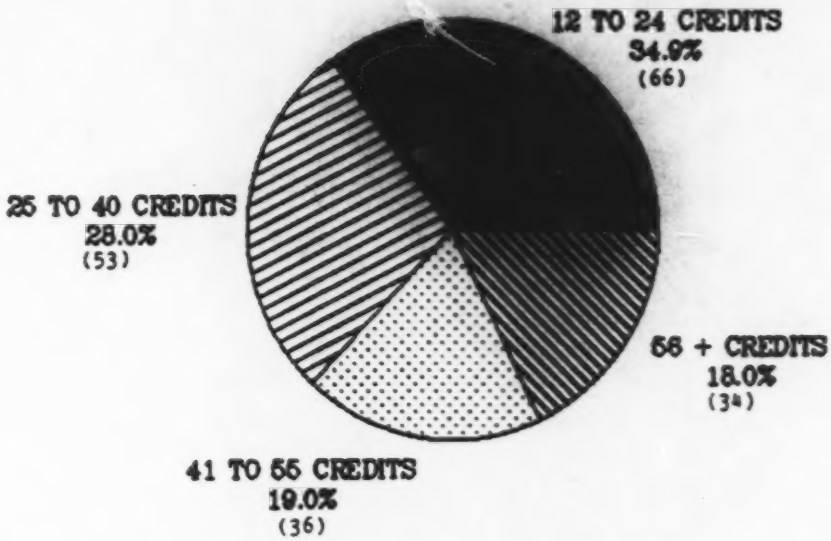
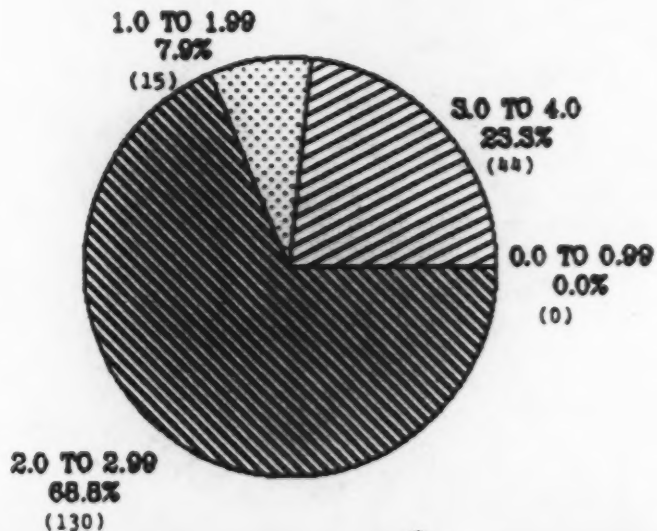


Figure 5

CCP GPA EARNED BY
WEST CHESTER APPLICANTS



4a.

Figure 6

WEST CHESTER
ADMISSION DECISIONS
BY CCP CREDITS EARNED

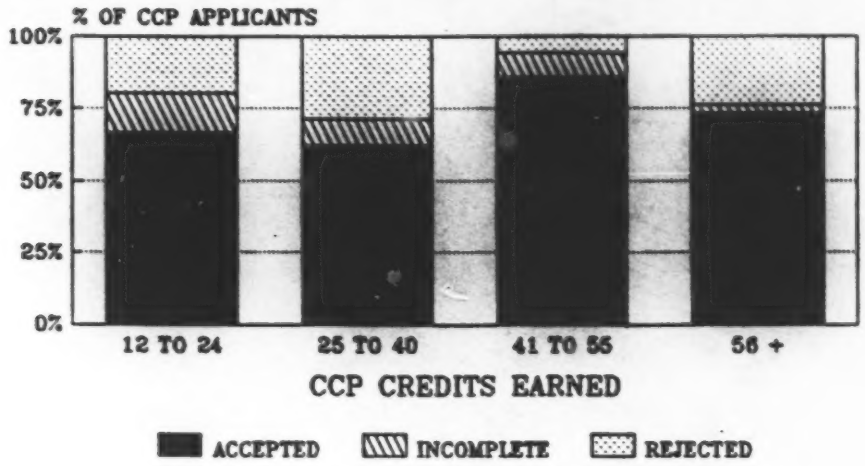
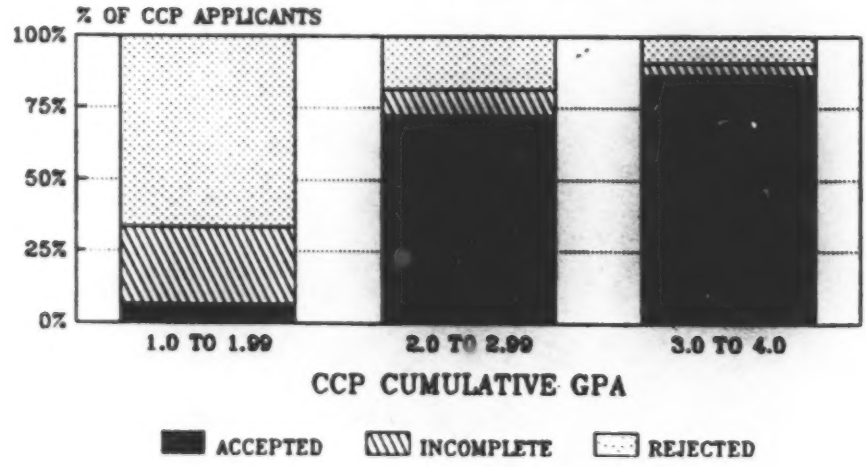


Figure 7

WEST CHESTER
ADMISSION DECISIONS
BY CCP CUMULATIVE GPA



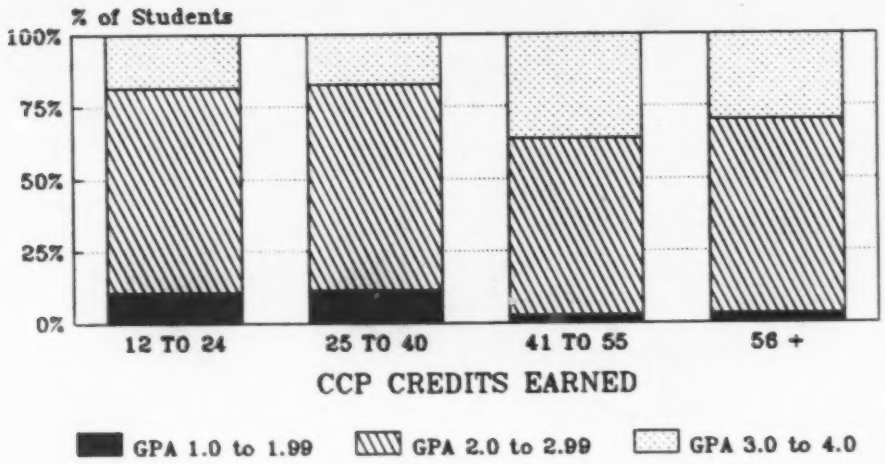
were more likely to be accepted to West Chester than student in the 56+ credit group. The largest percentage of rejections (28%) was associated with the 25 to 40 credit hour category.

Students who leave CCP in good academic standing have a clear advantage in the admission decisions process (Figure 7). Nearly all (87.5%) of the applicants who earned a GPA between 3.0 and 4.0 while at CCP were accepted at West Chester while only 9% were rejected. By contrast, only 6% of former CCP students who earned a GPA of less than a 2.0 were accepted.

While the relationship between admission outcomes and CCP GPA makes intuitive sense, it is puzzling as to why students who earned between 41 to 55 CCP credits prior to application would experience more positive admission outcomes than students who persisted to more than 55 credits. The joint distribution of CCP GPA and earned credits was therefore examined and appears in the stacked bar chart in Figure 8. While both of the more persistent groups were more likely to be better academically prepared than the less persistent groups, students in the 41 to 55 credit category were somewhat more likely than students in the 56+ group to earn higher CCP GPA's. Based on this information and that which appears in Figures 6 and 7, it appears that GPA information is weighted more heavily in the admission decisions process than is the number of earned credits at the

Figure 8

WEST CHESTER APPLICANTS
CCP CREDITS EARNED BY
CCP GPA



5a

feeder college. It is also consistent with prior institutional research results which indicate that better academically prepared students transfer early.

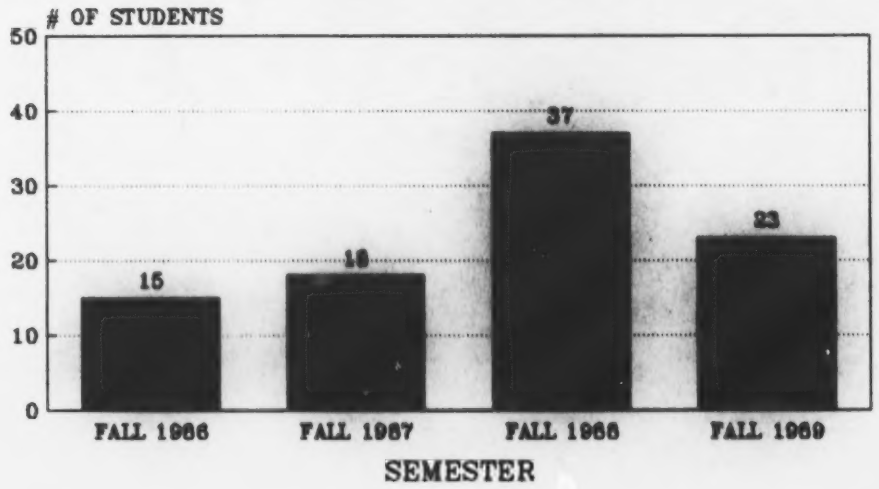
One hundred thirty-three (133) of the 189 students who applied to West Chester were accepted. Among the former CCP students who were accepted, 93 (70.0%) matriculated at West Chester. Figure 9 contains the number of matriculants in each of the four studied semesters. The following academic performance and persistence information is based on these students.

Table 1 contains the latest West Chester program enrollment information for the 93 CCP transfers. The most popular program with former CCP students was the Business program (16%) at West Chester. The popularity of the Business program was followed by an undeclared program status for which 15.1% of the students opted. Other moderately popular programs included Criminal Justice (8.6%), Early Childhood Education (7.5%), Elementary Education (7.5%), Liberal Studies (7.5%), and Social Work (6.5%).

As a group, these students were not academically successful at West Chester, as measured by cumulative GPA (Table 2). Nearly half (47.4%) failed to maintain a GPA of 2.0 or better while at West Chester. Only 16.0% earned GPA's in the 3.0 to 4.0 range. The average GPA for the group was 2.0.

Figure 9

WEST CHESTER
MATRICULANTS
FALL 1986 TO FALL 1987



6a.

Table 1

West Chester Program Enrollments

West Chester Program	#	%
Biology	1	1.1
Biology : Ecology	1	1.1
Business	15	16.1
Chemistry-Biology	2	2.2
Communicative Disorders	2	2.2
Computer Science	1	1.1
Criminal Justice	8	8.6
Early Childhood Education	7	7.5
Economics	1	1.1
Elementary Education	7	7.5
English	2	2.2
Health	1	1.1
Health Physical Education	1	1.1
Liberal Studies	7	7.5
Marketing	2	2.2
Mathematics	2	2.2
Nursing	2	2.2
Public Adminstration	1	1.1
Political Science	2	2.2
Psychology	3	3.2
Public Health	1	1.1
Social Work	6	6.5
Special Education	3	3.2
Speech Communication	1	1.1
Undeclared-General	14	15.1
Total	**93**	**100.0**

Table 2

Former CCP Transfer Student Outcomes
West Chester GPA

GPA	#	%
0.00 to 1.99	44	47.4
2.00 to 2.99	34	36.6
3.00 to 4.00	15	16.0
Total	93	100.0%

Mean =2.00
Standard Deviation =0.85

Minimum =0.00
Maximum =3.78

6c.

Table 3 contains West Chester persistence information related to the distribution of enrolled semesters associated with the students in this study. As of the Spring 1990 semester, 53 (57.0%) of the student cohort were still enrolled at West Chester. In the two most recent semesters, Fall 1988 and Fall 1989, persistence after one semester improved slightly and after two semesters, persistence among Fall 1988 entrants was considerably higher than persistence in the two preceeding semesters.

As a group, the 93 students had earned an average of 32.6 credits at West Chester as of the Fall 1989 semester (Table 4). One student had earned 111 credits, the highest earned credits in the studied sample.

Table 5 contains the distribution of earned credits from West Chester and CCP. The mean number of combined credits associated with these students was 70.8, with one student having earned 158 combined credits as of Fall 1989. Nine (9.8%) of the students had earned nearly enough credits (121+) to have earned a West Chester degree. Seven of these students (46.7%) entered West Chester in the Fall 1986 semester. The other two, entered in Fall 1987, representing 11.1% of all matriculants in that semester.

Table 3

Number of Semesters Enrolled at West Chester

# of Semesters Enrolled at West Chester University	Entering Semester							
	Fall 1986		Fall 1987		Fall 1988		Fall 1989	
	#	%	#	%	#	%	#	%
1	4	26.7	3	16.7	2	5.4	3	13.6
2	2	13.3	5	27.8	7	18.9	20*	86.4
3	0		1	5.6	3	8.1		
4	2	13.3	1	5.6	25*	67.7		
5	1	6.7	1	5.6				
6	1	6.7	6*	33.3				
7	3	20.0						
8	2*	13.3						
Total	**15**	**100.0%**	**18**	**100.0%**	**37**	**100.0%**	**23**	**100.0%**

* These students were still enrolled at West Chester as of the Spring 1990 semester.

7a.

Table 4

Former CCP Student Transfer Outcomes
West Chester Earned Credits

Credits	#	%
0 to 11	17	18.3
12 to 24	28	30.1
25 to 40	18	19.3
41 to 55	14	18.3
55 to 80	8	7.0
80 +	8	7.0
Total	93	100.0 %

Mean =32.61
Standard Deviation =25.84

Minimum = 0.00
Maximum =111.00

Table 5

Former CCP Student Transfer Outcomes
Total Credits Earned
Transfer Credits and West Chester Earned Credits

Credits	#	%
12 to 24	3	3.3
25 to 40	13	14.1
41 to 55	21	22.8
55 to 80	22	23.9
80 to 100	15	16.3
101 to 120	9	9.8
121 +	9	9.8
Total	93	100.0 %

Mean =70.79
Standard Deviation =32.03

Minimum =12.00
Maximum =158.00

As a final bit of analysis, the relationships between CCP GPA, earned CCP credits and West Chester GPA were explored. West Chester GPA was slightly associated with CCP GPA (r*= 0.27) or CCP credits earned (r*= 0.28), indicating there was a slight tendency for higher CCP GPA's and number of earned credits to be associated with higher West Chester academic performance as measured by GPA.

---

* r = Pearson product-moment correlation coefficient. This coefficient can range in size from 0 to +1 or -1. A value of 0 indicates there is no association between two variables while a value of 1 or -1 indicates a perfect association.

West Chester Academic Achievement and Persistence Outcomes Associated With CCP Transfers who were Enrolled at West Chester During the Spring 1989 or Fall 1989 Semester

During the Spring 1989 semester, 91 former CCP students were in attendance at West Chester University. There were 99 CCP transfers enrolled at the University for the Fall 1989 term. This section of the report provides West Chester earned credit hour, and GPA information for these students. In addition to presenting this information in aggregate form for all students in the semester, summary statistics are provided for students disaggregated into the West Chester department the students were enrolled in during the Spring 1989 (Table 6) and the Fall 1989 semesters (Table 7).

The information in the column labelled 'Transfer Credits' can be interpreted as a measure of persistence at the feeder school. When reviewing this information it is important to recognize that these credits may include course work completed at transfer schools in addition to CCP, therefore it is not a completely reliable measure of CCP persistence prior to transfer to West Chester.

The median number of transfer credits earned by the 91 former CCP students enrolled during Spring 1989 was 48. The range of transfer credits for these students was large, having a minimum value of 12 and a maximum of 120 transfer credits, indicating a great deal of variability in the sample with regard to persistence

at CCP prior to transferring to West Chester.

The credit hour information which appears under the heading of 'West Chester Credits' is an indicator of student persistence at the University. By Spring of 1989, half of the students had earned more than 46 credits at West Chester and the other half fewer than 46 credits. The minimum number of earned credits associated with these students was 9 while the largest number of credits earned was 111.

The credit information in Table 6 with the column heading 'Total Credits', is the sum of transfer credits and West Chester earned credits. In the absence of actual graduation information, this data provides a fairly reliable indicator of persistence to West Chester degree completion. The percentages which appear in the last column in Table 6 is based on the total credit data and it reflects the percentage of students who earned a minimum of 125 total credits by the end of the Spring term. In Spring 1989, 18.7% of the 91 CCP transfers had completed sufficient course work to meet minimum credit hour requirements for a degree.

Half of the students enrolled in the Spring 1989 term had earned a GPA greater than 2.38. The range of earned GPAs by these 91 students had a minimum value 0.25 and a maximum of 3.89.

The 91 students in the Spring 1989 term were enrolled in 23 West Chester departments. The largest enrollments were in the Liberal Studies (19) and Education (18) departments. There were

Table 6

West Chester Academic Achievement and Persistence Outcomes
by West Chester Program Enrollment
Spring 1989

Department	Students #	Transfer Credits			West Chester Credits			Total Credits			West Chester GPA			Earned Minimum of 125 Total Credits as of Spring 1989
		Minimum	Median*	Maximum	Minimum	Median	Maximum	Minimum	Median	Maximum	Minimum	Median	Maximum	
Art	2	15.0	38.0	61.0	67.0	67.0	67.0	79.0	103.5	128.0	2.80	3.31	3.81	50.0%
Biology	2	48.0	64.5	81.0	37.0	42.5	48.0	82.0	100.0	118.0	1.70	2.43	3.16	0.0%
Chemistry	3	30.0	37.0	120.0	48.0	56.0	73.0	80.0	100.0	164.0	1.61	2.57	2.80	33.3%
Speech Communication	1	63.0	63.0	63.0	45.0	45.0	45.0	108.0	108.0	108.0	3.24	3.24	3.24	0.0%
Criminal Justice	4	21.0	54.0	63.0	27.0	45.5	69.0	61.0	90.0	112.0	1.57	2.56	3.05	0.0%
Education	18	18.0	53.0	70.0	15.0	49.0	84.0	36.0	89.5	154.0	.47	3.05	3.89	11.1%
Economics	10	15.0	59.5	84.0	21.0	37.5	81.0	40.0	91.0	130.0	.82	2.12	3.41	20.0%
Special Education	1	36.0	36.0	36.0	89.0	89.0	89.0	122.0	122.0	122.0	2.19	2.19	2.19	0.0%
Liberal Studies	19	12.0	37.0	85.0	18.0	47.0	105.0	22.0	108.0	128.0	1.11	2.14	3.81	21.1%
Literature	2	18.0	29.0	40.0	47.0	63.5	80.0	65.0	90.5	116.0	2.56	3.12	3.68	0.0%
Political Science	3	18.0	36.0	41.0	25.0	49.0	107.0	49.0	59.0	145.0	.92	1.25	2.44	33.3%
Public Health	2	44.0	45.5	47.0	15.0	23.5	32.0	62.0	64.5	67.0	1.53	1.97	2.40	0.0%
History	1	57.0	57.0	57.0	24.0	24.0	24.0	75.0	75.0	75.0	1.75	1.75	1.75	0.0%
Health & Physical Ed	2	30.0	42.5	55.0	41.0	76.0	111.0	93.0	117.5	142.0	2.31	2.39	2.47	50.0%
Computer Science	2	12.0	28.5	45.0	12.0	23.0	34.0	34.0	41.0	48.0	.25	.76	1.26	0.0%
Business Management	3	67.0	72.0	79.0	46.0	49.0	53.0	113.0	118.0	132.0	2.12	2.70	3.03	33.3%
Marketing	1	33.0	33.0	33.0	83.0	83.0	83.0	116.0	116.0	116.0	2.52	2.52	2.52	0.0%
Music Education	2	37.0	49.5	62.0	33.0	59.0	85.0	70.0	108.5	147.0	2.98	3.11	3.23	50.0%
Nursing	1	81.0	81.0	81.0	53.0	53.0	53.0	124.0	124.0	124.0	2.09	2.09	2.09	0.0%
Philosphy	1	36.0	36.0	36.0	30.0	30.0	30.0	54.0	54.0	54.0	1.40	1.40	1.40	0.0%
Psychology	2	53.0	53.5	54.0	9.0	31.5	54.0	57.0	79.0	101.0	.67	1.53	2.39	0.0%
Communicative Disorder	1	40.0	40.0	40.0	35.0	35.0	35.0	72.0	72.0	72.0	1.86	1.86	1.86	0.0%
Social Work	5	13.0	29.0	68.0	15.0	24.0	44.0	39.0	51.0	109.0	2.20	2.46	2.50	0.0%
Total	91	12.0	48.0	120.0	9.0	46.0	111.0	22.0	92.0	164.0	0.25	2.38	3.89	18.7%

* Half of the students in the sample had values above the median value and half had values below the median value.

Table 7

West Chester Academic Achievement and Persistence Outcomes
by West Chester Program Enrollment
Fall 1989

Department	Students #	Transfer Credits			West Chester Credits			Total Credits			West Chester GPA			Earned Minimum of 125 Total Credits as of Fall 1989
		Minimum	Median*	Maximum	Minimum	Median	Maximum	Minimum	Median	Maximum	Minimum	Median	Maximum	
Art	2	15.0	38.0	61.0	67.0	67.0	67.0	79.0	103.5	128.0	2.80	3.31	3.81	50.0%
Biology	3	12.0	48.0	81.0	15.0	37.0	48.0	27.0	82.0	118.0	1.70	3.09	3.16	0.0%
Chemistry	2	30.0	75.0	120.0	48.0	60.5	73.0	100.0	132.0	164.0	2.57	2.69	2.80	50.0%
Speech Communication	1	63.0	63.0	63.0	45.0	45.0	45.0	108.0	108.0	108.0	3.24	3.24	3.24	0.0%
Criminal Justice	5	21.0	54.0	58.0	15.0	27.0	69.0	39.0	73.0	99.0	.63	1.73	3.05	0.0%
Education	19	18.0	48.0	70.0	12.0	44.0	84.0	48.0	89.0	154.0	1.24	3.01	3.89	10.5%
Economics	9	15.0	60.0	84.0	12.0	39.0	81.0	43.0	90.0	130.0	.82	2.29	3.42	22.2%
Special Education	1	36.0	36.0	36.0	89.0	89.0	89.0	122.0	122.0	122.0	2.19	2.19	2.19	0.0%
Liberal Studies	21	12.0	32.0	72.0	9.0	43.0	105.0	28.0	84.0	128.0	.58	2.07	3.03	14.3%
Literature	4	18.0	38.0	91.0	34.0	63.5	91.0	56.0	90.5	148.0	1.00	2.55	3.68	25.0%
Geography	1	47.0	47.0	47.0	15.0	15.0	15.0	59.0	59.0	59.0	1.93	1.93	1.93	0.0%
Political Science	1	60.0	60.0	60.0	15.0	15.0	15.0	75.0	75.0	75.0	1.73	1.73	1.73	0.0%
Public Health	4	38.0	45.5	126.0	5.0	14.5	32.0	52.0	64.5	131.0	1.53	2.41	3.80	25.0%
Health & Physical Ed	4	30.0	40.0	55.0	14.0	28.0	111.0	54.0	74.0	142.0	2.07	2.22	2.47	25.0%
Computer Science	1	12.0	12.0	12.0	34.0	34.0	34.0	34.0	34.0	34.0	1.26	1.26	1.26	0.0%
Business Management	4	42.0	66.5	72.0	12.0	37.0	49.0	70.0	94.0	118.0	2.08	2.49	3.03	0.0%
Marketing	3	27.0	33.0	51.0	12.0	13.0	83.0	37.0	63.0	116.0	1.26	2.52	2.75	0.0%
Music Education	2	37.0	49.5	62.0	33.0	59.0	85.0	70.0	108.5	147.0	2.98	3.11	3.23	50.0%
Nursing	3	31.0	44.0	81.0	9.0	9.0	53.0	40.0	50.0	124.0	1.78	2.09	2.67	0.0%
Psychology	2	23.0	38.0	53.0	9.0	31.5	54.0	32.0	66.5	101.0	2.39	2.70	3.00	0.0%
Communicative Disorder	2	40.0	42.5	45.0	6.0	20.5	35.0	51.0	61.5	72.0	1.86	2.52	3.17	0.0%
Social Work	5	13.0	29.0	68.0	10.0	24.0	44.0	39.0	51.0	109.0	2.20	2.47	3.30	0.0%
Total	99	12.0	43.0	126.0	5.0	39.0	111.0	27.0	81.0	164.0	0.58	2.40	3.89	13.0%

* Half the students in the sample had values above the median value and half had values below the median value.

also a sizeable number (10) of students enrolled in the Economics department at West Chester. The remaining 44 students were scattered across the other 20 departments listed in Table 6.

There is a great deal of variability in earned credits, and earned GPA across the 23 West Chester departments. This data should be reviewed cautiously given the small number of students enrolled in many of the departments, thereby yeilding potentially unreliable estimates of student performance at the program level.

There were 99 former CCP students enrolled at West Chester during the Fall 1989 semester (Table 7), many of whom were also enrolled during Spring 1989. These students are represented in both sets of figures.

The most popular programs of enrollment in Spring 1989 were also the most preferred among the Fall 1989 matriculants. Twenty-one students (21) were enrolled during the Fall in Liberal Studies, 19 in Education and nine (9) in Economics.

Fall 1989 median credit hour values were lower than the Spring 1989 values. The median earned GPA for Fall was comparable (2.40) with the Spring median value.

Fall 1986 and Fall 1987 West Chester Entrants

Thirty-eight (38) former CCP students applied for admission to West Chester University for the Fall 1986 semester. Of this group, 16 (42%) eventually matriculated. For Fall 1987, there were 43 CCP applicants and 18 (41.9%) subsequently enrolled at the University.

West Chester cumulative GPA, program enrollment, and persistence measures related to graduation and dropout status were available for these students. Comparable aggregate measures were also available for West Chester transfer students from the following types of feeder schools: Pennsylvania 2-year, other 2-year, Commonwealth 4-year institutions, private Pennsylvania 4-year, and all other colleges.

Tables 8 and 9 contain Fall 1986 and Fall 1987 program enrollment information for West Chester transfer students. In Fall 1986, CCP transfers accounted for 3.8% of all West Chester transfers while in Fall 1987 they represented 4.0% of their transfers. Criminal Justice and Liberal Studies (BS) were the most popular programs of study at West Chester with former CCP students in Fall 1986 while in Fall 1987 Liberal Studies (BA) was most popular. The Liberal Studies (BS) and Business programs were the most popular programs with all transfer students in these semesters.

Table 8

West Chester Transfer Students by Degree Program
Fall 1986

Program	Transfer From All West Chester Feeder Schools		CCP Transfers	
	N	%	N	%
BA Literature	12	2.3	-	
BS Computer Science	16	3.1	1	6.3
BA Psychology	16	3.1	-	
BA Speech Communication	11	2.1	1	6.3
BS Criminal Justice	37	7.2	4	25.0
BS Business	48	9.3	1	6.3
BA Social Work	23	4.4	2	12.5
BSN Nursing	10	1.9	-	
BS Health & Physical Ed.	18	3.5	-	
BS Health & Phys. ED. - Stud. Design	10	1.9	-	
BSED Early Childhood	22	4.3	-	
BSED Elementary Education	47	9.1	-	
BSED Special Education	11	2.1	1	6.3
BA Liberal Studies	27	5.2	2	12.5
BS Liberal Studies	71	13.7	3	18.8
Undeclared-General	35	6.8	1	6.3
Total	414		16	

Table 9

West Chester Transfer Students by Degree Program
Fall 1987

Program	Transfer From All West Chester Feeder Schools		CCP Transfers	
	N	%	N	%
BS Computer Science	15	2.5	-	
BA Psychology	21	3.5	-	
BS Criminal Justice	44	7.3	2	11.1
BS Business	88	14.6	3	16.7
BS Health & Physical Ed.	24	4.0	-	
BSED Early Childhood	29	4.8	2	11.1
BSED Elementary Education	67	11.1	1	5.6
BSED Special Education	15	2.5	1	5.6
BS Music Education	10	1.7	-	
BA Liberal Studies	45	7.5	5	27.8
BS Liberal Studies	63	10.4		
Undeclared-General	33	5.5	4	22.2
Total	454		18	

Academic status as of Fall 1988 for all Fall 1986 and 1987 transfers to West Chester is contained in Tables 11 and 12. The information is presented by type of college attended prior to enrollment at West Chester. Comparisons of outcomes associated with CCP transfers and all other transfers indicates that transfer students from other feeder schools outperformed our students in most of the studied areas. For both Fall 1986 and Fall 1987 semesters, the average GPA earned by CCP students (1.95 and 2.03 respectively) was lowest among the feeder subsamples and the percentage of transfers who earned cumulative West Chester GPA's below a 2.00 was also larger among former CCP students. CCP transfers in Fall 1986 and Fall 1987 were more likely to have dropped out of West Chester by Fall 1988 than transfer students from other feeder colleges. Graduation rates associated with former CCP students (Table 11) were comparable to transfers from other Pennsylvania 2-year schools, but lower than the graduation rates from other feeder categories.

Table 11

Outcomes as of Fall 1988 of Transfer Students Entering West Chester University in Fall 1986

Type of School	N	Average WCU GPA	% Dropped Out by Fall 1988	% Still Enrolled in Fall 1988	% Graduated	GPA	% <2.00
Pennsylvania 2-Year	201	2.27	32.8	58.8	8.5		30.8
Other 2-Year	56	2.49	32.1	50.0	17.9		30.4
State System of Higher Ed.	41	2.32	36.6	53.6	9.8		29.3
Commonwealth 4-Year	51	2.53	29.4	60.7	9.8		23.5
Pennsylvania Private 4-Yr.	68	2.47	33.8	55.9	10.3		23.5
All Others	100	2.59	37.0	47.0	16.0		23.0
Total	517	2.41	33.7	55.0	11.4		27.5
CCP	**16**	**1.95**	**56.3**	**35.4**	**8.3**		**43.8**

Table 12

Outcomes as of Fall 1988 of Transfer Students Entering West Chester University in Fall 1987

Type of School	N	Average WCU GPA	% Dropped Out by Fall 1988	% GPA ≤2.00
Pennsylvania 2-Year	236	2.22	25.0	37.7
Other 2-Year	102	2.23	26.5	35.3
State System of Higher Ed.	47	2.52	19.1	21.3
Commonwealth 4-Year	47	2.47	21.3	19.1
Pennsylvania Private 4-Yr.	52	2.42	26.9	26.9
All Others	120	2.50	21.1	23.3
Total	604	2.34	24.0	30.8
CCP	18	2.03	44.4	50.0

CCP Transfer Outcomes at West Chester University
-An Update-

The following table contains West Chester academic achievement and persistence outcomes associated with CCP transfer students enrolled at the University in the Spring 1990 semester. This information is an update of data which appeared in IR Report #49 entitled 'CCP Transfer Outcomes at West Chester University', and should be inserted in the section of this report which starts on page 9.

During Spring 1990, 87 former CCP students were in attendance at West Chester. This figure is slightly lower than enrollments of former CCP students in previous recent semesters. The median number of transfer credits that were accepted by West Chester was 44. The range of accepted transfer credits associated with the Spring 1990 enrollees was 12 to 44.

Half of the students in Spring 1990 earned more than 48 credits at West Chester by the end of the semester. Combined with the credits transferred into the University, the median number of total cumulative credits earned by these students was 89. Twenty percent of the 87 students had earned a total of 125 credits or more by the end of the Spring 1990 semester.

The range of cumulative GPAs earned by CCP transfers who were enrolled at West Chester in Spring 1990 was between 0.26 and 3.91. The median cumulative GPA for these students was 2.53.

West Chester Academic Achievement and Persistence Outcomes by West Chester Program Enrollment Spring 1990

Department	Students #	Transfer Credits Min.	Transfer Credits Median[1]	Transfer Credits Max.	West Chester Credits Min.	West Chester Credits Median	West Chester Credits Max.	Total Credits Min.	Total Credits Median	Total Credits Max.	West Chester GPA Min.	West Chester GPA Median	West Chester GPA Max.	Earned Minimum of 125 Total Credits as of Spring 1990
Anthropology	1	77.0	77.0	77.0	3.0	3.0	3.0	80.0	80.0	80.0	3.67	3.67	3.67	0.0%
Art	2	15.0	38.0	61.0	82.0	82.0	82.0	94.0	118.5	143.0	2.88	3.37	3.85	50.0%
Biology	3	12.0	40.0	81.0	13.0	29.0	48.0	41.0	53.0	129.0	1.77	2.62	3.24	33.3%
Chemistry	2	30.0	75.0	120.0	51.0	68.0	85.0	139.5	108.0	171.0	2.53	2.68	2.83	50.0%
Communication	2	58.0	60.5	63.0	13.0	35.0	57.0	62.0	91.0	120.0	0.59	1.93	3.28	0.0%
Communicative Disorder	1	40.0	40.0	40.0	53.0	53.0	53.0	87.0	87.0	87.0	1.87	1.87	1.87	0.0%
Computer Science	1	12.0	12.0	12.0	40.0	40.0	40.0	40.0	40.0	40.0	1.35	1.35	1.35	0.0%
Criminal Justice	3	21.0	24.0	54.0	28.0	38.0	51.0	52.0	73.0	91.0	2.04	2.40	2.96	0.0%
Economics	4	15.0	52.5	67.0	21.0	53.0	90.0	58.0	104.0	120.0	2.08	2.22	3.43	25.0%
Education	16	24.0	50.5	70.0	8.0	61.0	96.0	60.0	106.0	66.0	0.47	3.05	3.89	11.1%
Education-Special	1	36.0	36.0	36.0	98.0	98.0	98.0	134.0	134.0	134.0	2.18	2.18	2.18	100.0%
Geography	1	47.0	47.0	47.0	24.0	24.0	24.0	62.0	62.0	62.0	1.50	1.50	1.50	0.0%
Health	5	32.0	47.0	126.0	12.0	21.0	41.0	55.0	82.0	138.0	1.80	2.67	3.42	20.0%
Health & Physical Ed	5	15.0	40.0	61.0	24.0	37.0	125.0	52.0	69.0	156.0	1.88	2.41	2.55	20.0%
History	1	68.0	68.0	68.0	15.0	15.0	15.0	83.0	83.0	83.0	3.60	3.60	3.60	0.0%
Liberal Studies	16	12.0	30.0	71.0	15.0	49.0	89.0	28.0	88.5	129.0	0.26	1.85	3.70	0.1%
Literature	1	40.0	40.0	40.0	80.0	80.0	80.0	116.0	116.0	116.0	2.56	2.56	2.56	0.0%
Management	5	45.0	66.0	72.0	22.0	44.0	56.0	82.0	96.0	128.0	1.82	2.75	3.32	20.0%
Marketing	4	27.0	39.0	54.0	23.0	26.0	101.0	47.0	75.0	134.0	1.71	2.56	3.05	25.0%
Music Education	3	34.0	37.5	62.0	14.0	50.0	88.0	47.0	87.0	150.0	2.42	3.02	3.12	33.3%
Nursing	2	31.0	56.0	81.0	21.0	40.0	59.0	52.0	89.5	127.0	2.05	2.24	2.43	50.0%
Psychology	2	23.0	38.0	53.0	12.0	40.5	69.0	35.0	77.0	119.0	2.48	2.61	2.75	0.0%
Social Studies	1	60.0	60.0	60.0	30.0	30.0	30.0	87.0	87.0	87.0	2.17	2.17	2.17	0.0%
Social Work	5	13.0	51.0	68.0	24.0	36.0	59.0	53.0	76.0	124.0	2.13	2.59	3.16	0.0%
Total	87	12.0	44.0	126.0	3.0	48.0	125.0	28.0	89.0	171.0	0.26	2.53	3.91	19.5%

[1]Half of the students in the sample had values above the median value and half had values below the median value.

ERIC Clearinghouse for Junior Colleges NOV 15 1990